1. Identification

Product identifier

FIS V 360 S, FIS V 950 S (Component A)

Use of the substance/mixture

Mortar

Details of the supplier of the safety data sheet

Company name:	fischer fixings LLC (fius)	
Street:	850 South Jupiter Rd, Suite 300	
Place:	USA Garland TX 75042	
Telephone:	+1-214-425-9720	Telefax: +1 84 56 25 26 66
e-mail:	info@fischerfixingsusa.com	
Internet:	www.fischerfixingsusa.com	
Responsible Department:		
	Responsible for the safety data sheet: sds@gbk-ingelheim.de	
Emergency phone number:	Emergency Telephone: +1 3523233500 (INFOTRAC)	

2. Hazard(s) identification

Classification of the chemical

Hazard categories:
Skin corrosion/irritation: Skin Irrit. 2
Serious eye damage/eye irritation: Eye Dam. 1
Respiratory or skin sensitization: Skin Sens. 1
Hazard Statements:
Causes skin irritation
May cause an allergic skin reaction
Causes serious eye damage

Label elements

Signal word: Danger

Pictograms:

Hazard statements

Causes skin irritation
May cause an allergic skin reaction
Causes serious eye damage

Precautionary statements

If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Wear protective gloves/protective clothing/eye protection/face protection.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a poison center/doctor.

Hazards not otherwise classified

No data available.

3. Composition/information on ingredients

Mixtures

Chemical characterization

Mortar

Hazardous components

CAS No	Components	Quantity
14808-60-7	Quartz, silicium dioxide	25 - 50 %
65997-15-1	Portland cement	10 - 25 %
2082-81-7	tetramethylene dimethacrylate	< 5 %
27813-02-1	Methacrylic acid, monoester with propane-1,2-diol	< 2.5 %

4. First-aid measures

Description of first aid measures

General information
Remove contaminated soaked clothing immediately.
In the event of persistent symptoms receive medical treatment.

After inhalation
Move to fresh air in case of accidental inhalation of vapours or decomposition products.
In the event of symptoms refer for medical treatment.

After contact with skin
Wash off immediately with soap and plenty of water.
Consult a doctor if skin irritation persists.

After contact with eyes
Rinse eyes immediately with large amounts of water for several minutes, especially under the eyelids.
Seek medical treatment by eye specialist.

After ingestion
Do not induce vomiting.
If swallowed give water to drink.
Seek medical treatment immediately.

Most important symptoms and effects, both acute and delayed
DANGER!
Causes serious eye damage.
May cause an allergic skin reaction.

OSHA Hazard Communication: This material is considered hazardous by the OSHA Hazard Communication Standard 29CFR 1910.1200.

Indication of any immediate medical attention and special treatment needed
Treat symptoms.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media
Foam, carbon dioxide (CO2), dry chemical, water-spray.
Sand

Unsuitable extinguishing media
Full water jet.

Specific hazards arising from the chemical
Risk of formation of toxic pyrolysis products.

Special protective equipment and precautions for fire-fighters
Use breathing apparatus with independent air supply.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Remove persons to safety.
Ensure adequate ventilation.

Environmental precautions
Clean contaminated surface thoroughly.

Do not discharge into the drains/surface waters/groundwater.

Methods and material for containment and cleaning up

Take up mechanically and send for disposal.
Shovel into suitable container for disposal.

Reference to other sections

Information for disposal look up chapter 13.

7. Handling and storage

Precautions for safe handling

Advice on safe handling

Use only in thoroughly ventilated areas.
Avoid contact with skin, eyes and clothing.
When using do not eat, drink or smoke.

Further information on handling

Protect from direct solar radiation.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Storage: cool and dry

Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

8. Exposure controls/personal protection

Control parameters

Exposure limits

CAS No.	Substance	ppm	mg/m³	f/cc	Category	Origin
65997-15-1	Portland cement (total)	-	10		TWA (8 h)	REL
65997-15-1	Portland cement (respirable fraction)		1		TWA (8 h)	TLV
65997-15-1	Portland cement, respirable fraction	1765 mp/m³	5		TWA (8 h)	PEL
14808-60-7	Silica, crystalline (as respirable dust)	-	0.05		TWA (8 h)	REL
14808-60-7	Silica, crystalline - alpha-quartz (respirable fraction)		0.025		TWA (8 h)	TLV
14808-60-7	Silica, crystalline quartz, respirable dust	(Z-3)	(Z-3)		TWA (8 h)	PEL

Additional advice on limit values

Quartz, silicium dioxide*
*An inhalation risk is not expected in this form.

Exposure controls

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

Protective and hygiene measures

Wash hands before breaks and immediately after handling the product.
When using do not eat, drink or smoke.
Avoid contact with skin, eyes and clothing.
Remove and wash contaminated clothes before re-use.

Eye/face protection

Tightly fitting goggles.

Hand protection

Not required under normal use.
Protective gloves resistant to chemicals made of butyl, Minimum coat thickness 0,7 mm, Permeation resistance (wear duration) approx. 480 minutes, i.e. protective glove <Butoject 898> made by www.kcl.de.
This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

Skin protection

Long sleeved clothing.

Respiratory protection

Not required under normal use.
Use suitable breathing apparatus if there is inadequate ventilation.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state:	Paste	
Color:	Grey	
Odor:	Characteristic	
pH-Value (at 20 °C):	n.d.	

Changes in the physical state

Melting point/freezing point:	n.d.	
Initial boiling point and boiling range:	n.d.	
Flash point:	>100 °C	DIN ISO 2592
Lower explosion limits:	n.d.	
Upper explosion limits:	n.d.	
Vapor pressure: (at 20 °C)		DIN 51616
Density (at 20 °C):	1,7 - 1,8 g/cm³	DIN 51757
Water solubility: (at 20 °C)	n.d.	
Viscosity / dynamic:		Brookfield

Other information

No data available.

10. Stability and reactivity

Reactivity

No decomposition if stored and applied as directed.

Chemical stability

Stability: Stable

No decomposition if stored and applied as directed.

Possibility of hazardous reactions

Hazardous reactions: Will not occur

No data available.

Conditions to avoid

Keep away from heat and sources of ignition.

Incompatible materials

Reactions with metals in powder form.
Reactions with strong acids and alkalies.
Reactions with strong oxidizing agents.

Hazardous decomposition products

Carbon monoxide and carbon dioxide.
Nitrous oxides (NOx)

Further information

No decomposition if stored and applied as directed.

11. Toxicological information

Information on toxicological effects

Route(s) of Entry
Skin and eye contact, inhalation and ingestion.

Acute toxicity
Based on available data, the classification criteria are not met.

Irritation and corrosivity
Causes skin irritation
Causes serious eye damage

Sensitizing effects
May cause an allergic skin reaction (tetramethylene dimethacrylate), (Methacrylic acid, monoester with propane-1,2-diol)

Specific target organ toxicity (STOT) - single exposure
Based on available data, the classification criteria are not met.

Severe effects after repeated or prolonged exposure
Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction
Based on available data, the classification criteria are not met.

Carcinogenicity (NTP):	Not listed
Carcinogenicity (IARC):	Not listed
Carcinogenicity (OSHA):	Not listed

Aspiration hazard
Based on available data, the classification criteria are not met.

12. Ecological information

Ecotoxicity
No data available.

Persistence and degradability
No data available.

Bioaccumulative potential
No data available.

Mobility in soil
No data available.

Other adverse effects
No data available.

Further information
Do not discharge product unmonitored into the environment.
Product is not allowed to be discharged into aquatic environment.

13. Disposal considerations

Waste treatment methods

Advice on disposal
Can be incinerated, when in compliance with local regulations.
Where possible recycling is preferred to disposal.

Contaminated packaging
Empty containers should be taken for local recycling, recovery or waste disposal.
Contaminated packagings are to be treated like the product itself.
Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

14. Transport information

US DOT 49 CFR 172.101

Proper shipping name: Not regulated.

Other applicable information

Non hazardous material as defined by the transport regulations.

15. Regulatory information

U.S. Regulations

National Inventory TSCA
All of the components are listed on the TSCA inventory.

National regulatory information

SARA Section 311/312 Hazards:
Portland cement (65997-15-1): Immediate (acute) health hazard
tetramethylene dimethacrylate (2082-81-7): Immediate (acute) health hazard
Methacrylic acid, monoester with propane-1,2-diol (27813-02-1): Immediate (acute) health hazard

SARA
To the best of our knowledge this product contains no toxic chemicals subject to the supplier notification requirements of Section 313 of the Superfund Amendments and Reauthorization Act (SARA/EPCRA) and the requirements of 40 CFR Part 372.

State Regulations

Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)
This product contains no chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

16. Other information

HMIS Hazardous Materials Information System

Health:	*1
Flammability:	1
Physical Hazard:	0

NFPA Hazard Ratings

Health:	1
Flammability:	1
Reactivity:	0
Unique Hazard:	

Changes

Revision date:	29.09.2015
Revision No:	4,3
Changes in chapter:	

Abbreviations and acronyms
IMDG = International Maritime Code for Dangerous Goods
IATA/ICAO = International Air Transport Association / International Civil Aviation Organization
MARPOL = International Convention for the Prevention of Pollution from Ships
DOT = Department of Transportation
TDG = Transport of Dangerous Goods

GHS = Globally Harmonized System of Classification and Labelling of Chemicals
CAS = Chemical Abstract Service
ISO = International Organization for Standardization
LD = Lethal dose
LC = Lethal concentration
EC = Effect concentration
IC = Median immobilisation concentration or median inhibitory concentration

Other data
The information in this document is based on the present state of knowledge and is applicable to the product with regard to appropriate safety precautions.
The information describes exclusively the safety requirements for the product (s) and is based on the present level of our knowledge.
The delivery specifications are contained in the corresponding product sheet.
This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty

regulations.
(n.a. = not applicable; n.d. = not determined)

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

1. Identification

Product identifier

FIS V 360 S, FIS V 950 S (Component B)

Use of the substance/mixture

Hardener based on dibenzoyl peroxide

Details of the supplier of the safety data sheet

Company name: fischer fixings LLC (fius)
Street: 850 South Jupiter Rd, Suite 300
Place: USA Garland TX 75042
Telephone: +1-214-425-9720 Telefax: +1 84 56 25 26 66
e-mail: info@fischerfixingsusa.com
Internet: www.fischerfixingsusa.com
Responsible Department:
Responsible for the safety data sheet: sds@gbk-ingelheim.de

Emergency phone number: Emergency Telephone: +1 3523233500 (INFOTRAC)

2. Hazard(s) identification

Classification of the chemical

Hazard categories:
Serious eye damage/eye irritation: Eye Irrit. 2
Respiratory or skin sensitization: Skin Sens. 1
Hazard Statements:
May cause an allergic skin reaction
Causes serious eye irritation

Label elements

Signal word: Warning

Pictograms:

Hazard statements

May cause an allergic skin reaction
Causes serious eye irritation

Precautionary statements

If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Wear protective gloves/protective clothing/eye protection/face protection.

Hazards not otherwise classified

No data available.

3. Composition/information on ingredients

Mixtures

Chemical characterization

Hardener based on dibenzoyl peroxide

Hazardous components

CAS No	Components	Quantity
14808-60-7	Quartz, silicium dioxide	25 - 50 %
94-36-0	dibenzoyl peroxide; benzoyl peroxide	10 - 25 %

4. First-aid measures

Description of first aid measures

General information
Remove contaminated soaked clothing immediately.
In the event of persistent symptoms receive medical treatment.

After inhalation
Move to fresh air in case of accidental inhalation of vapours or decomposition products.
In the event of symptoms refer for medical treatment.

After contact with skin
Wash off immediately with soap and plenty of water.
Consult a doctor if skin irritation persists.

After contact with eyes
Rinse eyes immediately with large amounts of water for several minutes, especially under the eyelids.
Seek medical treatment by eye specialist.

After ingestion
Do not induce vomiting.
If swallowed give water to drink.
Seek medical treatment immediately.

Most important symptoms and effects, both acute and delayed
WARNING !
Causes serious eye irritation.
May cause an allergic skin reaction.

OSHA Hazard Communication: This material is considered hazardous by the OSHA Hazard Communication Standard 29CFR 1910.1200.

Indication of any immediate medical attention and special treatment needed
Treat symptoms.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media
Foam, carbon dioxide (CO_2), dry chemical, water-spray.
Sand

Unsuitable extinguishing media
Full water jet.

Specific hazards arising from the chemical
Risk of formation of toxic pyrolysis products.

Special protective equipment and precautions for fire-fighters
Use breathing apparatus with independent air supply.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Remove persons to safety.
Ensure adequate ventilation.
Keep away sources of ignition.

Environmental precautions
Clean contaminated surface thoroughly.
Do not discharge into the drains/surface waters/groundwater.

Methods and material for containment and cleaning up
Take up mechanically.
Shovel into suitable container for disposal.

Reference to other sections
Information for disposal look up chapter 13.

7. Handling and storage

Precautions for safe handling

Advice on safe handling
Use only in thoroughly ventilated areas.
Avoid contact with skin, eyes and clothing.
When using do not eat, drink or smoke.

Further information on handling
Protect from direct solar radiation.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels
Storage: cool and dry

Further information on storage conditions
Keep away from food, drink and animal feeding stuffs.

8. Exposure controls/personal protection

Control parameters

Exposure limits

CAS No.	Substance	ppm	mg/m³	f/cc	Category	Origin
94-36-0	Benzoyl peroxide	-	5		TWA (8 h)	PEL
		-	5		TWA (8 h)	REL
			5		TWA (8 h)	TLV
14808-60-7	Silica, crystalline (as respirable dust)	-	0.05		TWA (8 h)	REL
14808-60-7	Silica, crystalline - alpha-quartz (respirable fraction)		0.025		TWA (8 h)	TLV
14808-60-7	Silica, crystalline quartz, respirable dust	(Z-3)	(Z-3)		TWA (8 h)	PEL

Additional advice on limit values
Quartz, silicium dioxide*
*An inhalation risk is not expected in this form.

Exposure controls

Appropriate engineering controls
Ensure adequate ventilation, especially in confined areas.

Protective and hygiene measures
Wash hands before breaks and immediately after handling the product.
When using do not eat, drink or smoke.
Avoid contact with skin, eyes and clothing.
Remove and wash contaminated clothes before re-use.

Eye/face protection
Tightly fitting goggles.

Hand protection
Not required under normal use.
Protective gloves resistant to chemicals made of butyl, Minimum coat thickness 0,7 mm, Permeation resistance (wear duration) approx. 480 minutes, i.e. protective glove <Butoject 898> made by www.kcl.de.
This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.
Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

Skin protection
Long sleeved clothing.

Respiratory protection
Not required under normal use.
Use suitable breathing apparatus if there is inadequate ventilation.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state:	Paste	
Color:	Black	
Odor:	Characteristic	
pH-Value (at 20 °C):	n.d.	

Changes in the physical state

Melting point/freezing point:	n.d.	
Initial boiling point and boiling range:	n.d.	
Flash point:	>100 °C	DIN ISO 2592
Lower explosion limits:	n.d.	
Upper explosion limits:	n.d.	
Oxidizing properties	Oxidising	
Vapor pressure: (at 20 °C)		DIN 51616
Density (at 20 °C):	1,6 - 1,65 g/cm³	DIN 51757
Water solubility: (at 20 °C)	n.d.	
Viscosity / dynamic:		Brookfield

Other information

No data available.

10. Stability and reactivity

Reactivity

No decomposition if stored and applied as directed.

Chemical stability

Stability: Stable

Stable under normal conditions.

Possibility of hazardous reactions

Hazardous reactions: Will not occur

No data available.

Conditions to avoid

No decomposition if stored and applied as directed.

Incompatible materials

Reactions with metals in powder form.
Reactions with strong acids and alkalies.
Reactions with strong oxidizing agents.

Hazardous decomposition products

Carbon monoxide and carbon dioxide.
Nitrous oxides (NOx)

Further information

No decomposition if stored and applied as directed.

11. Toxicological information

Information on toxicological effects

Route(s) of Entry

Skin and eye contact, inhalation and ingestion.

Acute toxicity

Based on available data, the classification criteria are not met.

Irritation and corrosivity
Causes serious eye irritation

Sensitizing effects
May cause an allergic skin reaction (dibenzoyl peroxide; benzoyl peroxide)

Specific target organ toxicity (STOT) - single exposure
Based on available data, the classification criteria are not met.

Severe effects after repeated or prolonged exposure
Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction
Based on available data, the classification criteria are not met.

Carcinogenicity (NTP):	Not listed
Carcinogenicity (IARC):	Not listed
Carcinogenicity (OSHA):	Not listed

Aspiration hazard
Based on available data, the classification criteria are not met.

12. Ecological information

Ecotoxicity
No data available.

Persistence and degradability
No data available.

Bioaccumulative potential
No data available.

Mobility in soil
No data available.

Other adverse effects
No data available.

Further information
Do not discharge product unmonitored into the environment.
Product is not allowed to be discharged into aquatic environment.

13. Disposal considerations

Waste treatment methods

Advice on disposal
Can be incinerated, when in compliance with local regulations.
Where possible recycling is preferred to disposal.

Contaminated packaging
Empty containers should be taken for local recycling, recovery or waste disposal.
Contaminated packagings are to be treated like the product itself.
Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

14. Transport information

US DOT 49 CFR 172.101

Proper shipping name: Not regulated.

Other applicable information
Non hazardous material as defined by the transport regulations.

15. Regulatory information

U.S. Regulations

National Inventory TSCA
All of the components are listed on the TSCA inventory.

National regulatory information

SARA Section 311/312 Hazards:
Benzoyl peroxide (94-36-0): Reactive, Immediate (acute) health hazard
SARA Section 313 Toxic release inventory:
Benzoyl peroxide (94-36-0): De minimis limit = 1.0 %, Reportable threshold = Standard

SARA

To the best of our knowledge this product contains no toxic chemicals subject to the supplier notification requirements of Section 313 of the Superfund Amendments and Reauthorization Act (SARA/EPCRA) and the requirements of 40 CFR Part 372.

State Regulations

Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

This product contains no chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

16. Other information

HMIS Hazardous Materials Information System

Health:	*1
Flammability:	1
Physical Hazard:	0

NFPA Hazard Ratings

Health:	1
Flammability:	1
Reactivity:	0
Unique Hazard:	

Changes

Revision date:	29.09.2015
Revision No:	5,2
Changes in chapter:	

Abbreviations and acronyms

IMDG = International Maritime Code for Dangerous Goods
IATA/ICAO = International Air Transport Association / International Civil Aviation Organization
MARPOL = International Convention for the Prevention of Pollution from Ships
DOT = Department of Transportation
TDG = Transport of Dangerous Goods

GHS = Globally Harmonized System of Classification and Labelling of Chemicals
CAS = Chemical Abstract Service
ISO = International Organization for Standardization
LD = Lethal dose
LC = Lethal concentration
EC = Effect concentration
IC = Median immobilisation concentration or median inhibitory concentration

Other data

The information in this document is based on the present state of knowledge and is applicable to the product with regard to appropriate safety precautions.
The information describes exclusively the safety requirements for the product (s) and is based on the present level of our knowledge.
The delivery specifications are contained in the corresponding product sheet.
This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.
(n.a. = not applicable; n.d. = not determined)

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)